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(Security Classification)

LOGGED

14 AUG 1984

ROUTING			
TO:	NAME AND ADDRESS	DATE	INITIALS
1	ICS REGISTRY		
2			
3			
4			
	ACTION	DIRECT REPLY	PREPARE REPLY
	APPROVAL	DISPATCH	RECOMMENDATION
	COMMENT	FILE	RETURN
	CONCURRENCE	INFORMATION	SIGNATURE
REMARKS:			
FROM: NAME, ADDRESS, AND PHONE NO.		DATE	

CONTROL NO

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(Security Classification)

DISSEMINATION CONTROL ABBREVIATIONS

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
ORCON-	Dissemination and Extraction of Information Controlled by Originator
REL . . . -	This Information has been Authorized for Release to . . .

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DIRECTOR OF CENTRAL INTELLIGENCE
Intelligence Information Handling Committee
WASHINGTON, DC 20505

10 August 1984

MEMORANDUM FOR: COINS PMO

FROM:

Vice Chairman, IHC

SUBJECT: ADAPT Evaluation

1. In making my evaluation of ADAPT, I limited my activities almost entirely to evaluating its effectiveness as an interface with SOLIS, comparing the ADAPT interface with using SOLIS directly through COINS. My evaluation was so limited because I was not familiar with any of the other systems or data bases and did not have time to acquire the necessary knowledge.

2. General Observations. The ADAPT interface to SOLIS is not ready to be put into production. SOLIS is relatively easy to learn and easy to use. When faced with the limitations of ADAPT as it now stands, I believe the vast majority of COINS users would abandon it for SOLIS. Nevertheless, I believe that with considerable work, a good user's manual and a solution to one key problem, it could be developed into an acceptable substitute.

The key problem which must be solved is the time which it takes to transfer data from SOLIS into an ADAPT list or text file. Based upon my experience, it takes from 45 seconds to nearly 2 minutes per document to create an ADAPT list or text file. (I had difficulty evaluating this because all too often attempted file creation is aborted.) Since the ability to manipulate an answer set generated by a query (delete false drops, search for occurrences and character strings, etc.) is dependent upon this capability, it is most important that the time required be reduced to a minimum. This is not as important when one is dealing with sparse records, such as in the case of ASDIA. However, when dealing with lengthy records, such as SIGINT product, the types of messages which are on Weeder, and will be on the SAFE system, it becomes critical. Even if the implementation of the capability to transfer file extracts at computer-to-computer speeds requires some software modification on the part of SOLIS (or other similar systems such as SAFE as they are added to the network) this should be pursued and solved.

3. Other Limitations. A considerable amount of effort is needed to make the command language more efficient and flexible. While each present

MEMORANDUM MAY BE DOWNGRADED
TO UNCLASSIFIED ON REMOVAL
OF CAVEATS & APPENDICES

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limitation is, in itself, not terribly significant, the cumulative effect is to make the whole too slow and cumbersome compared to SOLIS in native mode.

a. Speed of Command Entry. Many potential users will, like myself, not be good typists. The ability to correct mistakes easily is important. The correction mechanism has been improved during the course of our evaluation, but should be further improved. Under SOLIS corrections or changes can be made by merely typing or spacing over erroneous key strokes. If this capability cannot be duplicated in ADAPT, the use of a character not involving the use of the shift key for deletion would be an improvement. Why not the hyphen or minus sign key?

b. Utilization of Segmentation of Large Data Bases on the Host (SOLIS Volume). When an ADAPT query is directed to SOLIS it searches the entire data base (all volumes of the inverted indices). However, the indices to the SOLIS data base are subdivided into volumes by date and the default option is to open only the most recent (approximately 15 days). This serves two purposes. One is to reduce the time the user is required to wait to receive the results of his query and the second is to reduce the processing load on the computer. Both are important objectives. One of the most effective of search criteria for reducing query retrievals to manageable proportions is to limit the date range covered. (It would be instructive to gather and review SOLIS statistics on actual user activity in this area). With the default for ADAPT being the entire data base (all index volumes) the only way an ADAPT user now has to use date of information for purpose of query refinement is to append an en date range into the query, adding additional processing requirements to the system and slowing response time unacceptably.

When the Weeder and Kingwood files are opened to COINS users (and eventually to DODIIS network users as well) this problem will be aggravated. Furthermore, the CIRC data base, due to be added to network access by the CIRS plan poses a similar problem. It is anticipated that the DIA SAFE text files will also be subdivided and eventually the NPIC topical reporting text files. The problem will also worsen with the future implementation of the CIRS plan which calls for a minimum of two years of full text on-line vice the 14 months now maintained on both SOLIS and Weeder. I, therefore, strongly urge that a production model of ADAPT be developed which will provide a similar default to that of SOLIS (perhaps expanding the date range of the default to 30-60 days), so notifying the user, and providing him with an option of expanding or contracting the date range of coverage, using a mechanism similar to the SOLIS volume screen through the opening or closing of volumes. If this requires the cooperation of the SOLIS/Kingwood data base administrator in making some software changes to their system I feel certain that they would be willing to cooperate as this would substantially reduce the future processing loads with which they will have to contend with the expansion of the numbers of external uses and the opening of the Weeder and Kingwood files through COINS. I have attached an analysis of test queries which illustrates the severity of this problem as Appendix "A."

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c. Query Refinement Using Dependent Queries. This facility should be a very helpful user tool, particularly since it can avoid the necessity of a considerable amount of retyping of previously entered material. However, the way dependent queries are now parsed and SOLIS queries generated induces an unacceptable expansion of the search time required (and presumably in the computer resources acquired for their processing). I am attaching as Appendix "B" a print out of actual ADAPT queries run against SOLIS at least twice, together with the response times required to receive a response. (Including the time required to parse the query.) In the minimum case, wherein it took only 25 secs to respond to the base query of 1 term, it took 1 minute 10 seconds to respond to a 2d order dependent query and 2 minutes and 11 seconds to respond to a third order dependent query. When the latter was entered directly as a single query, it only took 27 seconds for a response, despite its complexity. Clearly, SOLIS has difficulty dealing with nested parentheses. In most cases, dependent queries will tend only to add additional search criteria, in which they can be "and ed" without the use of parentheses. As the examples in Appendix "B" demonstrate, the capability to do this will greatly increase the efficiency of the dependent query function.

d. Elimination of Unnecessary Typing. We must not expect ADAPT users to be excellent typists. I am reasonably proficient but mistake prone. In virtually all cases, the time which I required to process a SOLIS query through ADAPT substantially exceeded that required for me to process the same query directly into SOLIS. In most cases the majority of the excess time required was involved in typing.

One of the principal contributions was the necessity of specifying the field name before each of the terms in a conjunctive series of search criteria (i.e., "and windex eq"). ADAPT, like SOLIS, should be able to recognize as an optional default condition that each term following an original entry of a field name is directed against the same field and carries with it the "and" operator unless otherwise specified. Thus the following ADAPT query: "Find in product windex eq 'computer' and windex eq 'security' and windex eq 'Soviet';" could also be simplified to: "Find in product windex eq 'computer' 'security' 'Soviet';". This is a 30% reduction in the number of characters required to be entered. If necessary, commas could be inserted to delimit the search terms, as in the case of date ranges, and still produce substantial improvements. However, this should be unnecessary since the search terms are already delimited by single quote marks. It would also be desirable to eliminate this requirement.

There are other compression tactics which could be incorporated, such as using "not" instead of "and not" and the use of digraphs as alternatives to spelling out field names, i.e., WN for Windex, TL for Tildex, GE for Geodex, etc. While it is desirable for the novice or occasional user to be able to use human readable and understandable "English-like" expressions to enter commands, it is also desirable to provide support for experienced users in using short-hand expressions as SOLIS does very well.

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4. SOLIS Capabilities Not Provided by ADAPT. There are several SOLIS features which I consider to be important to efficient use of any textual data base which cannot be exercised through ADAPT. These should be added if at all possible.

a. Highlighting. It is important to speed up the review of retrieved documents to be able to rapidly locate the context in which the search terms appear. In SOLIS this is accomplished by the system placing an asterisk in the right margin adjacent to each line of text in which search terms appear and in CIRC and SAFE by highlighting. As I understand CIRC and SAFE, this is done automatically by default. In SOLIS it is an option which must be turned on. I suggest that it be incorporated into ADAPT automatically, using the reverse video or highlighting capabilities of the terminals if possible. If the only way to accomplish it is, as in SOLIS, to place asterisks in the margin, then it should be implemented in this manner. An extremely useful facility would be a display option which displayed only those portions of the text which include search terms. This would save a considerable amount of the user's time in reviewing documents for inclusion or exclusion from the set of those documents retrieved as a result of a search which are to be saved. It could also serve to reduce the size of user files by encouraging a user to screen his responses and eliminate false drops before execution of a file transfer.

b. Facilities for Reviewing Responses. In SOLIS one can browse through the set of documents retrieved as a result of a query and by simply typing "ng", eliminate any particular document from the set of responses. So far as I can discern, with ADAPT, one must first create a list or text file including all of the documents retrieved and then review the list or text file, deleting unwanted items. If the file transfer can be speeded up sufficiently, this limitation would not be significant. However, unless a fairly large number of documents can be transferred to a user file in a matter of seconds rather than minutes, the inclusion of this capability would be most desirable. If it is included, then the use of the SOLIS convention of "ng" as an alternate to typing "Delete" should be adopted for the sake of consistency. It would be desirable to be able to use this facility when reviewing only selected fields (particularly titles) in addition to its use when reviewing the entire document. SOLIS also provides the facility to enter "OK" and skip to the next document rather than have to continue paging through the remainder of a multipaged document. Whereas ADAPT provides the facility to display only selected fields by entering their names in the display statement, with SOLIS one can enter either A0, A1 or A2 with the following results:

A0 - Display title, serial, date of document and tag line.

A1 - Display no more than 2 pages of each document.

A2 - Display same as A0 plus FM and TO lines.

The capability to include these conventions in a display statement in ADAPT with similar results would be useful.

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c. Adjacency or Proximity Searches. SOLIS provides the capability (after an initial query has produced a hit count) to further refine a query by specifying that certain terms appear adjacent to each other as a phrase. For example, the user may wish to review documents relating to "computer security." Specifying as search criteria 'computer' and 'security' will yield a large number of documents containing both terms whereas the user is only interested in those documents in which the two terms are adjacent or are found in close proximity in the text. Whereas it is possible with ADAPT to create a list or text file of the entire set of documents and then do a string search for the adjacent terms, this is a relatively slow and cumbersome procedure. It would be preferable to give ADAPT the capability to utilize the SOLIS JX capability to eliminate from the answer set all documents not containing the desired phrase before transferring them to a list or text file. Also CIRC and SAFE provide the capability for doing a proximity search. In anticipation of future interfaces with these systems, the commands required for proximity searching and the logic to accommodate these should be designed into the next version of ADAPT.

d. Hit Count. SOLIS provides hit counts for the individual search terms. This can be extremely useful information for refining a query. If possible, this information should be captured and passed through to the ADAPT user. While it is true that most other systems do not provide this information, the provision of this additional useful information when the ADAPT user is searching SOLIS (or Weeder or Kingwood) is not the type of lack of uniformity which should be avoided in designing ADAPT.

5. Help. The help functions which are provided are useful. However, it would be highly desirable to provide an additional level of detail for the "View Schema" function. In the case of SOLIS all one is provided is the name of the field (e.g., Windex, Tagdex, Geodex). Without having and referring to a user manual, one cannot get information about what the content of the fields is. In the case of Geodex, the SOLIS digraph for the USSR is "RU", whereas most other data bases use the FIPS code digraph "UR". It should be possible to provide the ADAPT user with a list of the SOLIS country codes on request or, likewise, a table of NSA TAGS with a short textual explanation of the definition of each without having to switch over to USIS.

6. ADAPT TUTORIAL. The TUTORIAL mode of ADAPT is too slow and cumbersome. After a short period of learning the user does not require all the prompts, yet he is not ready to be faced with a completely blank screen as in ADAPT UDL. I think the facility could be quite useful if it were flexible enough to permit a user to continue formulating commands up to the point help was needed and then respond with the appropriate response screen. As an example, a user desiring to query SOLIS soon learns to designate a label and enter "Find in Product." He might then wish to review the list of field names, which would then be activated by depressing the N/L key. After than making his field designation he could then continue his query specification or ask for the next prompt screen. He should also be able to type "h" or "help" after entering a field name and get some specification of what the forms and,

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in appropriate cases, such as Geodex, the search terms which are allowed for the field selected. In this way the novice user could be gradually and progressively weaned away from the tutorial mode. Also the relatively experienced, but infrequent user would be automatically provided with help only when needed. Without some means to speed up the process, I would personally rather have a good hard copy users' manual.

7. User Manual. Regardless of the capability of the on-line prompts, tutorials or help functions, a good user's manual must be provided. The current ADAPT Reference Guide may be useful to persons familiar with the convention in which it is presented and with computer programming languages and conventions. Not having had this experience I found it difficult to use. The training courses are likewise deficient. It should be possible to write a User's Guide or Manual in plain English tailored to the non-ADP information system specialist. When ADAPT is put into production, I consider this a necessity.

3 Attachments:

Appendix A

Appendix B

ADAPT II User Eval. &

Post Eval. Questionnaire

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Appendix "A"

Analysis of Problems Associated
with the Use of Date Ranges as Search
Criteria Against the "Product"
(SOLIS) Data Base Through ADAPT

In order to illustrate the date range problem a moderately complex query was run without specification of a date range. This query took the following form in ADAPT:

"Find in Product Windex eq 'computer' and Windex eq 'security' and Windex eq 'Soviet' and Geodex eq 'RU';".

This was parsed into the following SOLIS query form:

";computer; security; Soviet Geodex RU".

This required 1 minute 46 seconds to produce a response. (Including time required to parse but excluding typing.) The same query was then entered with the addition of "and Endate eq 840101, 840801". This required 4 minutes and 50 seconds to produce a response.

I then went directly to SOLIS, ran the same base query and then ran the query using a series of expanding date ranges, first opening the volumes from 1 Jan 84 to date and then all volumes. The results are tabulated as follows:

	1/1/84 to 8/2/84	All
1. Base query	1 min 36 sec	1 min 56 sec
2. EDR = 840716 to 840801	1 min 22 sec	7 min 10 sec
3. EDR = 840701 to 840801	1 min 1 sec	11 min 46 sec
4. EDR = 840601 to 840801	2 min 26 sec	(not run)
5. EDR = 840501 to 840801	2 min 34 sec	(not run)
6. EDR = 840401 to 840801	2 min 54 sec	Failed to respond after 15 min

Although these results are somewhat anomalous, they clearly indicate the difficulty which SOLIS has in running queries with specified data ranges against multiple volumes of the data base, especially with fairly large ranges. Some will not run at all. This was confirmed in several sessions on different days with a variety of queries.

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APPENDIX "B"

***** ~~SECRET~~ (SI/) *****PLEASE CHECK THAT THE <PRINT-ON-LINE> KEY IS SET TO OFF
&

#SOLIS STILL WORKING...ET=40.4, PT=3.6, IO=6.5-

#SOLIS STILL WORKING...ET=1:00.7, PT=4.6, IO=8.4

#SOLIS STILL WORKING...ET=1:21.6, PT=5.8, IO=10.4

#SOLIS STILL WORKING...ET=1:41.7, PT=7.2, IO=13.2

#SOLIS STILL WORKING...ET=2:01.8, PT=9.6, IO=15.5

#SOLIS STILL WORKING...ET=2:22.0, PT=12.4, IO=18.5

#SOLIS CONTINUING...ET=2:25.7, PT=12.7, IO=18.5

<THE SOLIS PRODUCT DATA BASE IS COMPRISED OF SUB-DATA BASES KNOWN AS VOLUMES.
TO IMPROVE YOUR RESPONSE TIME, X OUT VOLUMES YOU DO NOT WANT TO QUERY.

VOLUME DATRANGE # DOCS X TO SUPPRESS

Y 17MAY83-30JUN83 79375 >X<

Z 01JUL83-31AUG83 57299 >X<

T 01SEP83-31OCT83 55401 >X<

25X1 01NOV83-31DEC83 50265 >X<

W 01JAN84-30FEB84 52395 >X<

W 01MAR84-31APR84 57703 >X<

Y 01MAY84-30JUN84 58669 >X<

Y 01JUL84-15JUL84 13121 >X<

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FOR ENTRY TAB CURSOR HERE > < AND
ENTER SCRTDEVOL PUSH HOMEYANDOSB70 MODE...QS >

1> XXX
AND
2> XXX
AND
3> XXX
AND
<4> P-1
EDR=840716 TO 840801
NUMBER OF RECORDS SELECTED IS 16770
62 find label p1 windex eq 'computer' and windex eq 'security';
<>
(; computer ; security) AND (EDR=840716 TO 840801)
NUMBER OF RECORDS SELECTED IS 4 - 29 sec // 21 sec
63 find in product windex eq 'computer' and windex eq 'security' and
enddate wrq 840716,840801; - 21 sec
<>
; computer ; security EDR=840716 TO 840801 // 18 sec
NUMBER OF RECORDS SELECTED IS 4
65 find in product windex eq 'computer' and windex eq 'security'
and (windex eq 'soviet' or windex eq 'ussr' or geodex eq 'ru') and
enddate wrq 840716,840801; - 27
<>
; computer ; security ; soviet EDR=840716 TO 840801 OR ; computer
; security ; ussr EDR=840716 TO 840801 OR ; computer ; security
GEODEX ru EDR=840716 TO 840801
NUMBER OF RECORDS SELECTED IS 2 - 27 sec // 24 sec
66 find in product windex eq 'computer';
<>
; computer - 54 sec // 25 sec
NUMBER OF RECORDS SELECTED IS 2753
66a find label p6 windex eq 'c security';
<>
(; security) AND (; computer) - 1:30 sec 1 min 30 sec // 28 sec
NUMBER OF RECORDS SELECTED IS 116
66b find label p6a windex eq 'soviet' or windex eq 'ussr' or
geodex eq 'ru';
<>
(; soviet OR ; ussr OR GEODEX ru) AND ((; security) AND (; computer))
NUMBER OF RECORDS SELECTED IS 29 - 2 min 16 sec // 1 min 10 sec
67 find label p
p6c find label p6b endate wrq 840716,840801;
<>
(EDR=840716 TO 840801) AND ((; soviet OR ; ussr OR GEODEX ru) AND (
; security) AND (; computer)))
NUMBER OF RECORDS SELECTED IS 2 - 3 min 58 sec. SAME AS P5 while took only 27 sec !!! 2 min 11s
67 find in product windex eq 'computer' and windex eq 'security';
<>
; computer ; security
SORRY, HOST DID NOT RECOGNIZE YOUR STATEMENT Paragunit 11:00 Same Result
68 p7 find in product windex eq 'computer' and windex eq 'security';
<>
; computer ; security
SORRY, HOST DID NOT RECOGNIZE YOUR STATEMENT
25X167 find in product-windex eq 'computer';
<>
; computer
SORRY, HOST DID NOT RECOGNIZE YOUR STATEMENT

ADAPT II USER EVALUATION
USER POST-EVALUATION QUESTIONNAIRE

PURPOSE

This questionnaire is to provide COINS users with an organized means of documenting their evaluation of ADAPT II. A follow-up interview will be conducted to insure proper interpretation of the answers to the questions. The overall results of the User Evaluation of ADAPT II will then be used as input to the preparation of specifications for the next version of ADAPT.

PERSONAL

Please complete the following personal information:

DATE

7 / 26 / 84

NAME

JOB TITLE

V/CH Intelligence Information Handling Committee

AGENCY

I. C. Staff.

GROUP

LOCATION

PHONE

INSTRUCTIONS

Return the completed questionnaire via proper channels to:

National Security Agency
9800 Savage Road
Fort Meade, Maryland 20755
Attn: P6, Nancy Starecky

Please read and answer each question carefully. If more space is needed for your answer to a question — continue on the back side of the page or on a separate sheet of paper.

QUESTIONS

1. Did you complete an ADAPT II User Evaluation Form in April 1984?
☒ YES
☐ NO
2. How long have you used COINS?
Since APRIL 1984
3. How long have you used ADAPT?
Since April 1984
4. Would you like to continue to use ADAPT?
☒ YES
☐ NO
5. How well do you feel that you know the ADAPT Query Language?
☐ Very familiar
☒ Familiar
☐ Slightly familiar
☐ Academic knowledge only
☐ Not at all

6. How did you acquire this knowledge? Indicate the percentage for the following sources:

<u>20%</u>	Class taught by Mr. Soleglad in April
<u>10%</u>	Introductory Mode
<u>10%</u>	Tutorial Mode
<u>5%</u>	Practice at PMO during April classes
<u>10%</u>	ADAPT Manuals distributed by Soleglad
<u>5%</u>	COINS User Support Group
<u>40%</u>	Practice at own terminal

7. Are you familiar with any other query languages?

✓ YES (Please answer question 7a.)
 NO

7a. If answer to 17 was YES, how does ADAPT compare with other query language(s)?

I am only familiar with SOLIS as a user.

*Adapt is not as flexible as the
 Solis query language - is more difficult
 to learn and use.*

8. Please indicate which COINS query languages that you are familiar with — if any?

<u> </u>	TILE	<u> </u>	QLP
<u>✓</u>	SOLIS	<u> </u>	ADCOM
<u> </u>	DIAOLS	<u> </u>	PACAF

The following ADAPT related features require a rating by you as an ADAPT user. Please give each feature a number grade ranging from 1 (excellent) to 5 (very poor). Annotate your ratings, if you desire. Use the back of the page if more space is needed.

1= excellent, 2= good, 3= no opinion, 4= poor, 5= very poor

A. ON LINE OPERATION

9. FIND in independent query	<u>2</u>	
10. FIND in dependent query	<u>2</u>	(Has some one significant Defect - see attached)
11. INVOKE	<u>3</u>	
12. SAVREC	<u>4</u>	(only Became Document Transfer so slow.)
13. DISPLAY interactive query results	<u>4</u>	(see Attached comments)
14. DISPLAY batch query results	<u>3</u>	
15. DISPLAY default format	<u>4</u>	(see attached comments)
16. DISPLAY listed fields	<u> </u>	
17. DISPLAY format capability	<u>3</u>	
18. REVIEW	<u>3</u>	
19. DISPLAY PRINT	<u>3</u>	
20. VIEW LIST	<u>2</u>	
21. VIEW TRANS	<u>2</u>	
22. VIEW LABEL	<u>2</u>	
23. VIEW RESPONSE	<u>2</u>	
24. VIEW FILE	<u>2</u>	
25. VIEW SCHEMA	<u>2 -</u>	Should be able to get more info on line on field content
26. VIEW TEXT	<u>3</u>	

1= excellent, 2= good, 3= no opinion, 4= poor, 5= very poor

27. DELETE	<u>2</u>
28. EXECUTE string of queries	<u>3</u>
29. EXECUTE formatted displays	<u>3</u>

B. QUERY RESULTS

30. Relevance of data obtained	<u>2</u>
31. Completeness of data obtained	<u>2</u>
32. Usefulness of data obtained	<u>2</u>
33. Utility of data obtained in <u>default</u> format	<u>2</u>

34. Data appearance and legibility	<u>2</u>
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35. Data trustworthiness	<u>4</u>
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See Attached

C. TRAINING AND ORIENTATION

36. ADAPT Training Manual	<u>4</u>
37. ADAPT Reference Guide ease of use/usefulness	<u>4</u>
38. Usefulness of the on-line Introductory Mode	<u>2</u>

39. Usefulness of the on-line Tutor Mode	<u>4</u>
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See Comments

40. Usefulness of April class taught by Mr. Soleglad	<u>2 -</u>
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41. User Support Group	<u>1</u>
------------------------	----------

1= excellent, 2= good, 3= no opinion, 4= poor, 5= very poor

D. GENERAL ASSESSMENT

42. Current capabilities of ADAPT features as compared to current host capabilities

4

— Solis only compared
See comments

43. Current capabilities of ADAPT features compared to the ideal query language

4

44. Overall ADAPT performance

4

45. Which ADAPT command is the easiest to use?

FIND.

46. Which ADAPT command is the hardest to use?

3

47. What is the best characteristic of ADAPT? Why?

In its present form its best characteristic is its primary purpose - allows common interface to multiple Data Bases -

48. What is the worst characteristic of ADAPT? Why?

Slow and inflexible -

See attached -

49. Would you prefer to use ADAPT rather than using another COINS host query language? Why/Why not?

TILE	_____	YES	<u> </u>	NO
SOLIS	_____	YES	<u> ✓ </u>	NO
DIAOLS	_____	YES	_____	NO
QLP	_____	YES	_____	NO

see attached

50. Have you in the past used the files that are available in ADAPT?

_____	YES	<u> ✓ </u>	NO
-------	-----	--------------	----

51. Are you now using a new file from ADAPT that you did not know how to use before?

<u> ✓ </u>	YES	_____	NO
--------------	-----	-------	----

52. Explain any uses now being made of the EXECUTE file capability:

none

53. Is your post-evaluation opinion of ADAPT II different from your pre-evaluation opinion of ADAPT? If so, please explain.

*I had hoped it would perform better -
I still think it has good potential but
Requires much more work.*

54. How would you compare the difficulty of learning ADAPT -- as compared to other COINS languages?

*More difficult than Solis -
user aids not as good
inherently more difficult.*

55. Do you feel that the "evaluation" activities starting with the class on April 2, 1984 adequately covered the features of ADAPT II?

_____ YES

_____ ☒ NO

56. If you answered 55. with NO, please explain what areas of ADAPT were not adequately covered in the evaluation activities:

*With A good User's Manual to start with
Perhaps would be O.K. Need more time on
terminal with instructor available for 1 on 1
consultation & explanation.*

57. Do you feel that the ADAPT II training provided was adequate?
If not, please explain where the training was deficient:

58. Are there things that ADAPT allows you to do that the separate host systems do not? If so, please explain:

*Do NOT know of anything that
Solis does not provide*

59. Are there things that you need to do that you cannot do with ADAPT II? If so, please explain:

*Yes. - Need Highlighting of search terms.
Need subordinate Hit Counts on Solis
Need more efficient capability to qualify
search by Date range on SOLIS*

60. Does ADAPT help you do your job better?

N/A

_____ YES

_____ NO

61. In your opinion, will ADAPT make user training easier or harder? Why?

If adapt is improved - will make it easier because training in multiple languages will be unnecessary -

62. Please use the remainder of this page to make any additional comments or suggestions.

See attached.

Distribution--SC06286-84:

Copy 1 w/Atts-NSA ATTN P6
2 w/Atts-NSA ATTN P6
3 w/Atts-IHC/Subject
4 w/Atts-IHC/Chrono
5 w/Atts-ICS Registry

Rm 2W064, Bldg OP-1
Rm 2W064, Bldg OP-1

25X1

DCI/ICS/IHC, hcd/13Aug84